

CLAIMS

What is claimed is:

1 1. An apparatus, comprising:  
2           a point-to-point communication array to transfer data; and  
3           a hub device, coupled with said point-to-point communication array to  
4           configure said point-to-point communication array by dedication of  
5           a communication medium of said point-to-point communication  
6           array to transfer data between an endpoint device and said hub  
7           device based upon device connectivity.

1 2. The apparatus of claim 1, wherein the endpoint device is coupled with said point-  
2           to-point communication array via a connector.

1 3. The apparatus of claim 2, wherein the connector comprises a connector having a  
2           primary port and a non-primary port.

1 4. The apparatus of claim 2, wherein the connector comprises a detachable coupling  
2           to decouple the connector from the communication medium in response to a signal  
3           from said hub device.

1 5. The apparatus of claim 4, the detachable coupling comprises an inductive  
2           coupling to couple the connector with the communication medium.

1 6. The apparatus of claim 2, the connector comprises a translator to translate  
2           between magnetic and electrical signals.

1 7. The apparatus of claim 1, wherein said point-to-point communication array  
2           comprises a lane to transmit data between the endpoint device and said hub  
3           device.

1 8. The apparatus of claim 7, wherein the lane comprises a selectable lane.

1 9. The apparatus of claim 1, wherein said hub device comprises circuitry to provide  
2 peer-to-peer communication.

1 10. The apparatus of claim 1, wherein said hub device comprises logic circuitry  
2 coupled with said point-to-point communication array to select the endpoint  
3 device based upon receipt of a signal to indicate a device connectivity.

1 11. The apparatus of claim 10, wherein the logic circuitry comprises circuitry to  
2 transmit a signal to request a device connectivity.

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1 12. A method, comprising:  
2 receiving a signal to indicate a device connectivity for an endpoint device  
3 coupled with a point-to-point communication array;  
4 determining a configuration for the point-to-point communication array  
5 based upon the signal; and  
6 dedicating a first communication medium of the point-to-point  
7 communication array to transfer data between the endpoint device  
8 and a hub device, based upon the configuration.

1 13. The method of claim 12, further comprising requesting an indication of a device  
2 connectivity from the endpoint device via the first communication medium.

1 14. The method of claim 12, wherein said receiving a signal comprises receiving a  
2 signal indicating that a primary port of the endpoint device is coupled with the  
3 first communication medium.

1 15. The method of claim 12, wherein said receiving a signal comprises receiving a  
2 signal indicating that a non-primary port of the endpoint device is coupled with a  
3 second communication medium of the point-to-point communication array.

1 16. The method of claim 12, wherein said determining a configuration comprises  
2 comparing the device connectivity against a connectivity capacity of the point-to-  
3 point communication array.

1 17. The method of claim 12 wherein said determining a configuration comprises  
2 matching the endpoint device with a port based upon a priority.

1 18. The method of claim 12, wherein said determining a configuration comprises  
2 matching the endpoint device with a port based upon a connector to couple the  
3 endpoint to the first communication medium.

1 19. The method of claim 12, wherein said dedicating a first communication medium  
2 comprises transmitting a signal to couple a port of the endpoint device with the  
3 first communication medium.

1 20. The method of claim 12, wherein said dedicating a first communication medium  
2 comprises transmitting a signal to decouple a port of the endpoint device from the  
3 first communication medium.

21. A system, comprising:

- a memory device to store data;
- a chipset coupled with said memory, comprising
  - a memory controller to access said memory; and
  - an input-output controller, comprising
    - a point-to-point communication array to transfer data; and
    - a hub device, coupled with said point-to-point communication array to configure said point-to-point communication array by dedication of a communication medium of said point-to-point communication array to transfer data between an endpoint device and said hub device based upon device connectivity.

1 22. The system of claim 21, further comprising a processor coupled with said chipset,  
2 to transmit data from said memory via the data transmission medium.

1 23. The system of claim 21, wherein the endpoint device is coupled with said point-  
2 to-point communication array via a connector.

1 24. The system of claim 21, wherein said hub device comprises logic circuitry  
2 coupled with said point-to-point communication array to select the endpoint  
3 device based upon receipt of a signal to indicate a device connectivity.

1    25. A system, comprising:  
2                    an input-output device to request data via a transmission medium;  
3                    a chipset coupled with said input-output device, comprising  
4                        a point-to-point communication array to transfer data; and  
5                        a hub device, coupled with said point-to-point communication  
6                        array to configure said point-to-point communication array  
7                        by dedication of a communication medium of said point-to-  
8                        point communication array to transfer data between an  
9                        endpoint device and said hub device based upon device  
10                      connectivity; and  
11                      a processor coupled with said chipset to respond to the request for data via  
12                      said chipset.

1    26. The system of claim 25, wherein said chipset further comprises a switch to couple  
2                      more than one input-output device with said chipset.  
1    27. The system of claim 25, wherein the point-to-point communication array  
2                      comprises a lane to transmit data between the endpoint device and said hub  
3                      device.

1 28. A machine-readable medium containing instructions, which when executed by a  
2 machine, cause said machine to perform operations, comprising:  
3 receiving a signal to indicate a device connectivity for an endpoint device  
4 coupled with a point-to-point communication array;  
5 determining a configuration for the point-to-point communication array  
6 based upon the signal; and  
7 dedicating a first communication medium of the point-to-point  
8 communication array to transfer data between the endpoint device  
9 and a hub device, based upon the configuration.

1 29. The machine-readable medium of claim 28, requesting an indication of a device  
2 connectivity from the endpoint device via the first communication medium.

1 30. The machine-readable medium of claim 28, wherein said determining a  
2 configuration comprises comparing the device connectivity against a connectivity  
3 capacity of the point-to-point communication array.